

**Trade and Industrial Education**  
**Course: Diesel: Electronics**  
**Course Code # 5717**  
**2 Credits**

**School Year** \_\_\_\_\_

**Term:** \_\_\_\_ **Fall** \_\_\_\_ **Spring**

Student:	Grade:
Teacher:	School:
Number of Competencies in Course:	34
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

**STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Lead a team.			
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.			
1.3	Assess client complaint and apply problem-solving and decision-making skills to communicate with the client.			
1.4	Demonstrate teamwork skills.			

**STANDARD 2.0: Students will demonstrate diesel technology safety practices, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for a diesel repair facility.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Determine the safe and correct application for chemicals used in a diesel repair facility.			
2.2	Use protective clothing and safety equipment.			
2.3	Use fire protection equipment.			
2.4	Follow OSHA and EPA regulations affecting diesel service technology.			
2.5	Respond to safety communications.			
2.6	Pass with 100 % accuracy a written examination relating to safety issues.			
2.7	Pass with 100% accuracy a performance examination relating to safety.			
2.8	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.			

**STANDARD 3.0: Students will properly test and diagnose general electrical systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Analyze the function and operation of medium and heavy truck general electrical systems.			
3.2	Test and diagnose general electrical systems to determine needed action.			

**STANDARD 4.0: Students will properly test, diagnose, and repair battery, starting system, and charging system.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Analyze the function and operation of the battery, starting system, and charging system.			
4.2	Test, diagnose, service, and repair battery.			
4.3	Test, diagnose, service, and repair starting system			
4.4	Test, diagnose, service, and repair charging system.			

**STANDARD 5.0: Students will properly test, diagnose, and repair lighting systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Analyze the function and operation of lighting systems.			
5.2	Test, diagnose, and adjust or repair headlights, daytime running lights, and parking, clearance, tail, cab, and instrument panel lights.			
5.3	Test, diagnose, and adjust or repair stoplights, turn signals, hazard lights, and back-up lights.			
5.4	Test, diagnose, and adjust or repair gauges and warning devices.			
5.5	Test, diagnose, and adjust or repair related electrical systems			

**STANDARD 6.0: Students will properly test, diagnose, and repair related electrical systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Analyze the function and operation of related electrical systems.			
6.2	Examine the role of computer technology in truck service and repair.			
6.3	Test, diagnose, and repair related truck electrical systems.			

**STANDARD 7.0: Students will demonstrate communication skills required in the diesel service industry.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Communicate and comprehend oral and written information pertaining to electrical and electronic systems.			
7.2	Solve electrical problems and make decisions using a logical process			
7.3	Use teamwork skills to solve problems relating to electrical and electronic system issues.			

**STANDARD 8.0: Students will demonstrate interpersonal and employability skills required in the diesel service industry.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Infer relationships between honesty, integrity, and organization and personal job success.			
8.2	Demonstrate attitudes conducive to workplace success			
8.3	Maintain electrical and electronic equipment in a neat and orderly work area.			
8.4	Assess implications of cultural and religious diversity for classroom and workplace relationships.			
8.5	Develop individual and team time management and work sequencing skills to increase productivity in electrical and electronic systems diagnostics and repair.			

**Additional Comments** \_\_\_\_\_